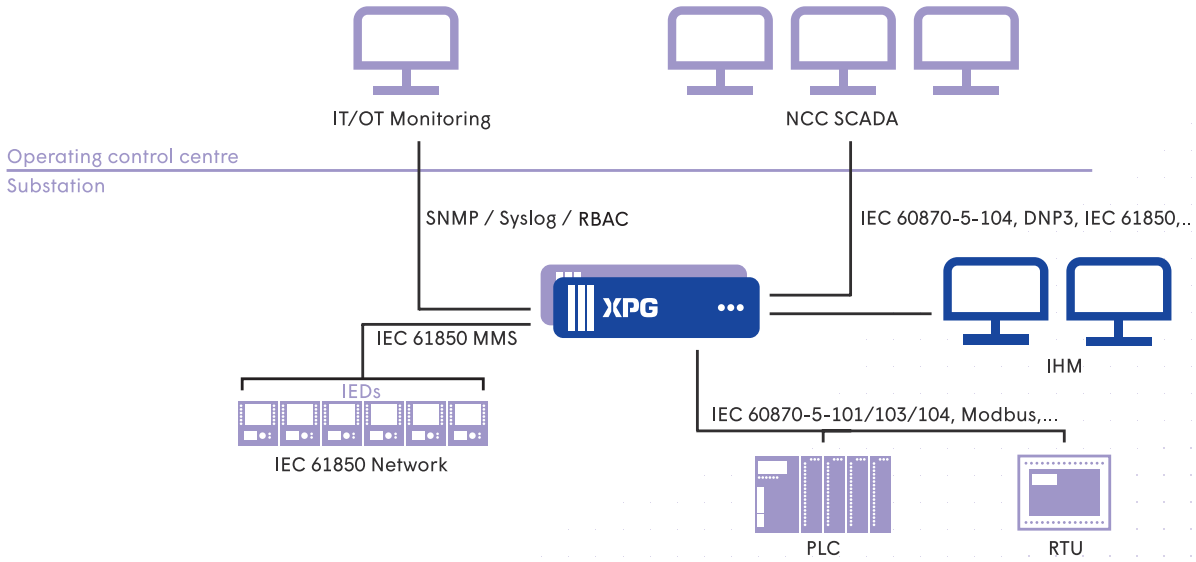
CONDIS®

Product Sheet

Grid Control

XPG - Substation Gateway & HMI

For over 20 years, the XPG solution has been used in high-voltage and high/medium-voltage substations. XPG has been developed in close collaboration with dsos and TSOs. Therefore, it responds pragmatically to the needs and challenges of substation integrators and DSOs operators.



Gateway/RTU

XPG is a software solution for Gateway/RTU and/or SCADA and local HMI functions. As a Gateway/RTU, XPG exchanges signals with the protection and control relays (IEDs) using the many communication protocols available or by wired signals via IO modules. XPG also enables automated collection of files (log, COMTRADE, PQDIFF) from equipment capable of providing them in the substation.

XPG is the interface with the remote-control centre(s), but also with fault and event analysis tools, asset management or data analysis solutions.

XPG can be used both in modern IEC 61850 substation designs and to interface with legacy technologies.

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Local SCADA & HMI

As a local SCADA/HMI, XPG offers a modern, flexible and accessible solution. It enables the user to monitor and control the substation locally from one or more fixed or mobile supervision stations or from one or more touch panels.

Modularity, flexibility and redundancy

XPG allows you to use solely modules with functions that are useful in the application. All modules can be used in redundant HOT-STANDBY or HOT-HOT modes.

In terms of application architectures, XPG can be used as a central application or distributed across several machines with segmentation by functionality, voltage level or other breakdowns specific to the operation or site. This flexibility also allows XPG to be used in parallel with existing solutions, for example to add new functionalities to the substation or to carry out partial renewals.

Software solutions

XPG is a software solution developed entirely by CONDIS and supplied :

- on qualified and robust equipment for substation environments
- in virtual machines for users taking the step to virtualise SAS applications in substations

XPG is not dependent on the machine that hosts it, which means that the application lasts well beyond the lifespan of a piece of equipment.

IG2

DA681C

DA820C

ICS P-371

Virtual Machine

Optimised design and configuration

XPG's configuration and management tools are designed for teamwork and knowledge sharing. They optimise the creation of configuration models to facilitate the work of integrators. They offer easy interfacing with IEC 61850 specification and configuration tools.

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Efficient local or remote operations

XPG can be managed remotely with peace of mind, thanks to appropriate tools and mechanisms for backing up configurations and restarting in the case of problems. Test phases can also be optimised with functions that facilitate point-to-point testing. XPG also has a strong capacity for integration with third-party testing solutions. XPG as a virtual machine also allows you to have a digital twin and optimise various work processes, whether in the laboratory, during FAT tests or for maintenance operations.

High level of cyber security

XPG makes it possible to implement a level of security that meets the high standards of a critical infrastructure such as a substation, including

- optimised integration into an IT/OT environment for monitoring, detection, accessibility and user rights
- security of processed and configuration data through encryption
- multiple hardening options

XPG is a trusted solution for exchanges with critical infrastructure control centres and can be serenely installed at a remote site or at a site operated by a third party.

Why choose CONDIS?

- User training for designers, integrators and operators
- Application design service and creation of configuration
- Support for all stages in the life of applications, from design to maintenance
- Tailor-made, responsive development of functionalities or upgrades

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